N5 Applications of Mathematics Speed, Distance, Time

2019 P1 Q13	Joe had a business meeting in London. He travelled from home to his meeting by car. • He arrived at his meeting at 11:45 • He travelled 220 miles to his meeting at an average speed of 50 mph • During his journey he stopped for half an hour for breakfast Calculate the time he left home.	4
Ans	06:51	
2018 P2 Q4(b)	Nicola spent 21 minutes exercising on a treadmill. Her average speed was 6·6 km/h. (b) Calculate the distance she ran on the treadmill.	2
Ans	2·31 km	
2017 P2 Q5	The distance from Villefranche to Livorno is. It took 7 hours and 30 minutes to sail from Villefranche to Livorno. (b) Calculate the average speed of the ship's journey. Give your answer in knots. 1 kilometre per hour = 0·54 knots Round your answer to 2 significant figures.	3
Ans	17 (knots)	
2016 P2 Q4(b)	**From part (a) The distance from Mallaig to Inverie is 9·6 km** (b) The average speed of the ferry from Mallaig to Inverie is 24 ± 3 kilometres per hour depending on tide and weather. What is the shortest time that the complete ferry journey might take? Give your answer to the nearest minute.	3
Ans	23 (minutes)	

2014 P2 Q6

The table shows the qualifying times at the Malaysian 2013 Grand Prix.
The qualifying times are for 1 lap of the track.
The track is 5·543 kilometres long.
There are 56 laps in this Grand Prix.

	Driver	Team	Qualifying Time (min: sec)
1	Sebastian Vettel	Red Bull	01:49·7
2	Felipe Massa	Ferrari	01:50·6
3	Fernando Alonso	Ferrari	01:50·7
4	Lewis Hamilton	Mercedes	01:51·7
5	Mark Webber	Red Bull	01:52·2
6	Nico Rosberg	Mercedes	01:52·5

(b) What was Lewis Hamilton's average speed in his qualifying lap?
Round your answer to the nearest km/h. 5

Ans 179 (km/hr)

2014 P1 Q5

Reece is given a lift to school.
She leaves the house at 8:30 am and arrives at school at 8:50 am.
She uses an app on her phone to calculate her average speed for the journey.
Her phone displays 6·8m/s.
What distance did she travel?
Give your answer to 2 significant figures. 4

Ans 8200 metres (8·2 km)